4550. Network Systems Administration. 3 hours. Study of file and print network services in a directory services environment. Topics include server configuration, user management, resource allocation, risk management, and disaster recovery. Prerequisite(s): LTEC 3530.

4560. Internet Services Administration. 3 hours. Design and implementation of Internet information services including FTP, NNTP, World Wide Web and streaming media. Conferencing using H.323 and T.120 standards-based systems. Students both design and build various information services using representative software tools and hardware platforms.

4740. Instructional Internship in Applied Technology and Training. 3–6 hours. Supervised observation and instructional practice in an approved applied technology program or industrial training environment; discussion and evaluation seminars are scheduled. Prerequisite(s): consent of department. May be repeated for credit.

4741. Applied Technology and Performance Improvement Capstone. 3 hours. A capstone course designed for students to synthesize the knowledge, skills and attitudes learned throughout the undergraduate degree in Applied Technology and Performance Improvement. Students will demonstrate their ability to articulate career pathways, apply technology in the workplace, and contribute to the organizational structure of either business and industry or education. Prerequisite(s): This course may only be taken during the final term/semester of the ATPI professional development sequence.

4800. Studies in Education. 1–3 hours each. Organized classes for program needs. Prerequisite(s): consent of department. Limited-offering basis. May be repeated for credit.

4830. Practicum, Field Problem or Internship. 3 hours. (1;0;6) Supervised professional activities in computer education. May be repeated for credit.

4900-4910. Special Problems. 1–3 hours each. Prerequisite(s): consent of department. May be repeated for credit.

4951. Honors College Capstone Thesis. 3 hours. Major research project prepared by the student under the supervision of a faculty member and presented in standard thesis format. An oral defense is required of each student for successful completion of the thesis. Prerequisite(s): completion of at least 6 hours in honors courses; completion of at least 12 hours in the major department in which the thesis is prepared; approval of the department chair and the dean of the school or college in which the thesis is prepared; approval of the dean of the Honors College. May be substituted for HNRS 4000.

Library and Information Sciences

Information Science, INFO – see *Graduate Catalog*

Library and Information Sciences, SLIS

4000. Introduction to Information Professions. 1 hour. History, roles and scope of information professions and practice. Basic concepts and issues including impact of information technology on the individual, intellectual freedom, privacy and diversity. Course activities emphasize team building and leadership skills. Internet-based instruction.

4080. Research Methods and Evaluation. 3 hours. Research principles and techniques; role of theories and hypotheses; experimental and non-experimental research; measurement and data collection; analysis and interpretation; quantitative methods and applications; problems in formulating research proposals and evaluating representative studies.

4090. Practice Work in Information Agencies. 3 hours. Supervised practice work and field study (120 clock hours minimum) in a cooperating learning resources center or information agency, plus seminar conferences and summary report. Prerequisite(s): 12 hours of prior courses in the school and application early in prior term/semester. For students without prior field experience. Pass/no pass only.

4095. **Cooperative Education.** 3 hours. Supervised work in a job related to student's career objective. Prerequisite(s): consent of the practicum director and the cooperative education advisor. Pass/no pass only. Cannot be used for degree credit.

4200. Basic Information Organization. 4 hours. Basics of information organization and presentation for facilitating access. Concepts and problems of human information behavior, classification and categorization related to information organization. Database technology, structure and design. Standards for information organization, data representation and information exchange. Systems for organizing information and facilitating information access in various information use environments.

4205. Introduction to Indexing and Abstracting. 3 hours. Applications in different types of information systems and agencies. Use of database retrieval software. Indexing language formulation, macros programming, and design for user support. Planning and implementing representative programs. Prerequisite(s): SLIS 4200 or consent of school.

4208. School Library Organization and Media. 3 hours. Cataloging and classification of print and nonprint collections. MARC records. School library automation systems and their management. Media and media services, including services special to populations. Representative problems and library experiences. Prerequisite(s): SLIS 4000 or consent of school.

4210. Information Organization and Records Control. 3 hours. Descriptive cataloging, subject analysis, classification and control of information resources of all kinds; Anglo-American Cataloguing Rules; Dewey Decimal and Library of Congress classification systems; subject headings; organization, functions and use of catalogs and classification systems; principles of information indexing and retrieval; use of bibliographic databases; representative problems and practice. Prerequisite(s): SLIS 4200 or consent of school.

4230. Records Management Operations. 3 hours. Management operations for records control and use; preparation, organization, storage, retrieval and dissemination. Preservation, security and disposal problems. Planning and supervising records management programs. Departmental functions and organization. Data-processing applications and online systems.

4300. Administration of Information Agencies. 3 hours. Role, functions and development of principal kinds of information centers and agencies. Management principles and practices; standards and evaluation; resources and services; facilities and equipment; planning, staffing and reporting; public relations; budgeting and financial procedures; policy making; social contexts and backgrounds; professional perspectives.

4400. Evaluation and Development of Information Resources. 3 hours. Principles and techniques of selecting and acquiring information resources of all kinds; development and maintenance of collections; criteria and selection aids; national and trade bibliographies; online searching; publishers and publishing; censorship problems and intellectual freedom; representative problems and practice.

4420. Information Resources for Children. 3 hours. Survey of print and nonprint materials, including multicultural/multiethnic materials; utilization practices and selection; curricular correlations and enrichment; recreational and developmental needs; children's services and programs; wide reading and use of literature and other materials for children from preschool through middle-school years.

4430. Information Resources for Young Adults.
3 hours. Survey of print and nonprint materials, including multicultural/multiethnic materials; utilization practices and selection; curricular correlations and enrichment; recreational and developmental needs; young adult services and programs; wide reading and use of literature and other materials for young adults from upper middle school through high school years.

4600. Basic Information Access and Retrieval. 4 hours. Basic principles and techniques of information retrieval and access services. Survey of research in information seeking behavior and user interaction. Introduction to systems of access, search and retrieval skills, and collection management. Study of evaluation methods for all formats of resources, services, and user satisfaction.

4615. Electronic Information Services. 3 hours. Basic concepts of electronic information services and databases in different fields; conducting online searches and evaluating services. Supervised practical experience. Prerequisite(s): SLIS 4600 or consent of school.

4620. Information Resources in the Humanities. 3 hours. Information resources, methods and services to meet access needs in the humanities. Literature searching and communication patterns in individual fields. Role of professional organizations and government. Representative problems and practice. Prerequisite(s): SLIS 4600 or consent of school.

4630. Information Resources in Sciences and Technology. 3 hours. Information resources, methods and services to meet access needs in science and technology. Literature searching and communication patterns in individual fields. Role of professional organizations and government. Representative problems and practice. Prerequisite(s): SLIS 4600 or consent of school.

4640. Information Resources in the Social Sciences. 3 hours. Information resources, methods and services to meet access needs in the social sciences. Literature searching and communication patterns in individual fields. Role of professional organizations and government. Representative problems and practice. Prerequisite(s): SLIS 4600 or consent of school.

4646. Information Resources in Business. 3 hours. Information resources, methods and services to meet access needs of business as a discipline and in practice. Characteristics of information services to a specific, diverse user community. Introduction to and development of print and electronic forms of information relevant to the business community's information needs. Prerequisite(s): SLIS 4600 or consent of school.

4685. Information Resources in Culturally Diverse Communities. 3 hours. Information resources, methods and services to meet access needs of ethnic cultural minorities. Issues in the provision of information services to ethnic cultural minority communities. Study of the needs and cultural milieu of these communities. Materials and methods for serving these groups.

4710. Introduction to Information Technology. 3 hours. Basic concepts of information and its role in an information society. Includes mechanisms of information processing, information transfer, and applications of computers and other information tools in various disciplines and fields.

4720. Multi-Media Production. 3 hours. Nonbook resources and services in different kinds of libraries and information/media centers. Includes preparation and organization of materials, instructional design and materials production, and the use and maintenance of related equipment. Supervised laboratory experience. Prerequisite(s): SLIS 4000 or consent of school.

4900-4910. Special Problems. 1–3 hours each. Supervised individual or small-group study of special problems or topics not otherwise covered by regular course offerings. Prerequisite(s): consent of instructor and dean of school. May be repeated for credit as topics vary.

4951. Honors College Capstone Thesis. 3 hours. Major research project prepared by the student under the supervision of a faculty member and presented in standard thesis format. An oral defense is required of each student for successful completion of the thesis. Prerequisite(s): completion of at least 6 hours in honors courses; completion of at least 12 hours in the major department in which the thesis is prepared; approval of the department chair and the dean of the school or college in which the thesis is prepared; approval of the dean of the Honors College. May be substituted for HNRS 4000.

4960-4970. Information Science Institute/Seminar.
1–6 hours each. Special institute courses and seminars. Prerequisite(s): consent of school. May be repeated for credit as topics vary.

Linguistics
see Linguistics and Technical Communication

Linguistics and Technical Communication

Linguistics, LING

1020. Speech for International Students. 3 hours. (3;2) Designed for international students learning English as a second language. Emphasis on improving oral English communication skills through lectures and labs on speech sound production, vocabulary, grammar, word order, intonation and idioms. Individual and small-group work. *Satisfies a portion of the Understanding the Human Community requirement of the University Core Curriculum.*

3060. Principles of Language Study. 3 hours. An introductory linguistics course that focuses on the structure of English (phonology, morphology and syntax). The course includes language acquisition and development, the history of English, dialects of American English and problems of usage.